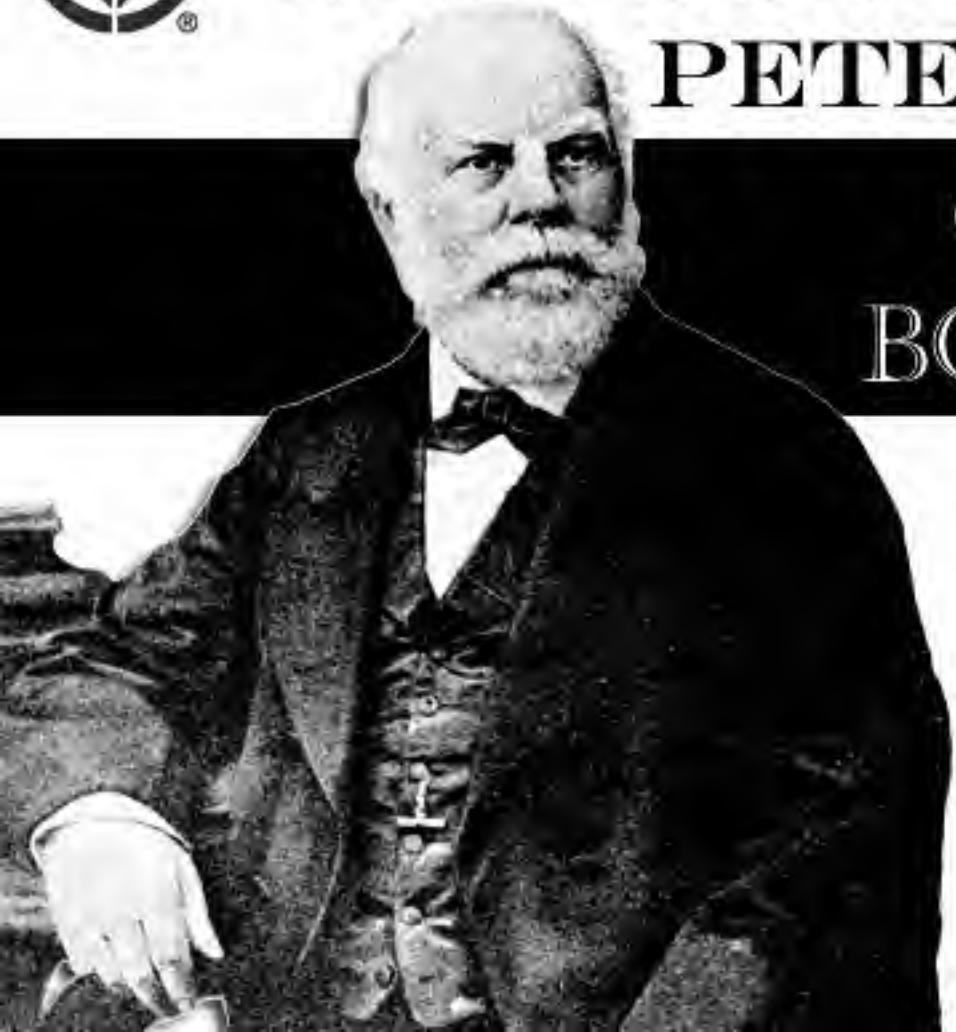




MISSOURI BOTANICAL GARDEN

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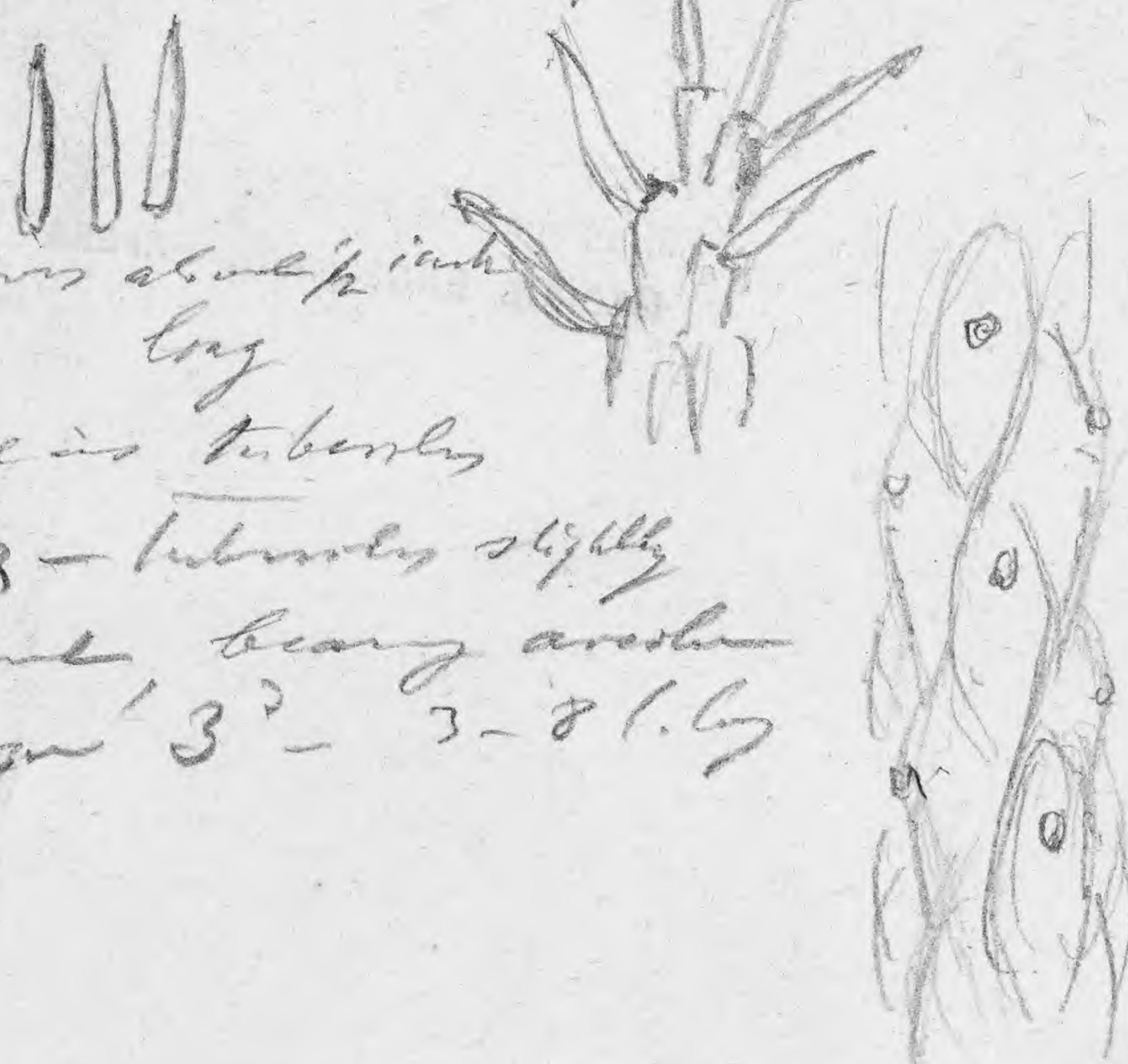
GEORGE ENGELMANN BOTANICAL NOTEBOOKS

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Osmunda Davisii?

Zone 6 1876

rec'd from Texas, cultd. by me



about 1/2 inch
long
as well as tuberous
 $\frac{1}{2}$ - tuberous slightly
prominent, bearing a rosette
on upper $1\frac{3}{4}$ - 3-8 ft. long



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

2606

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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Opuntia prolifera
in Mayo?

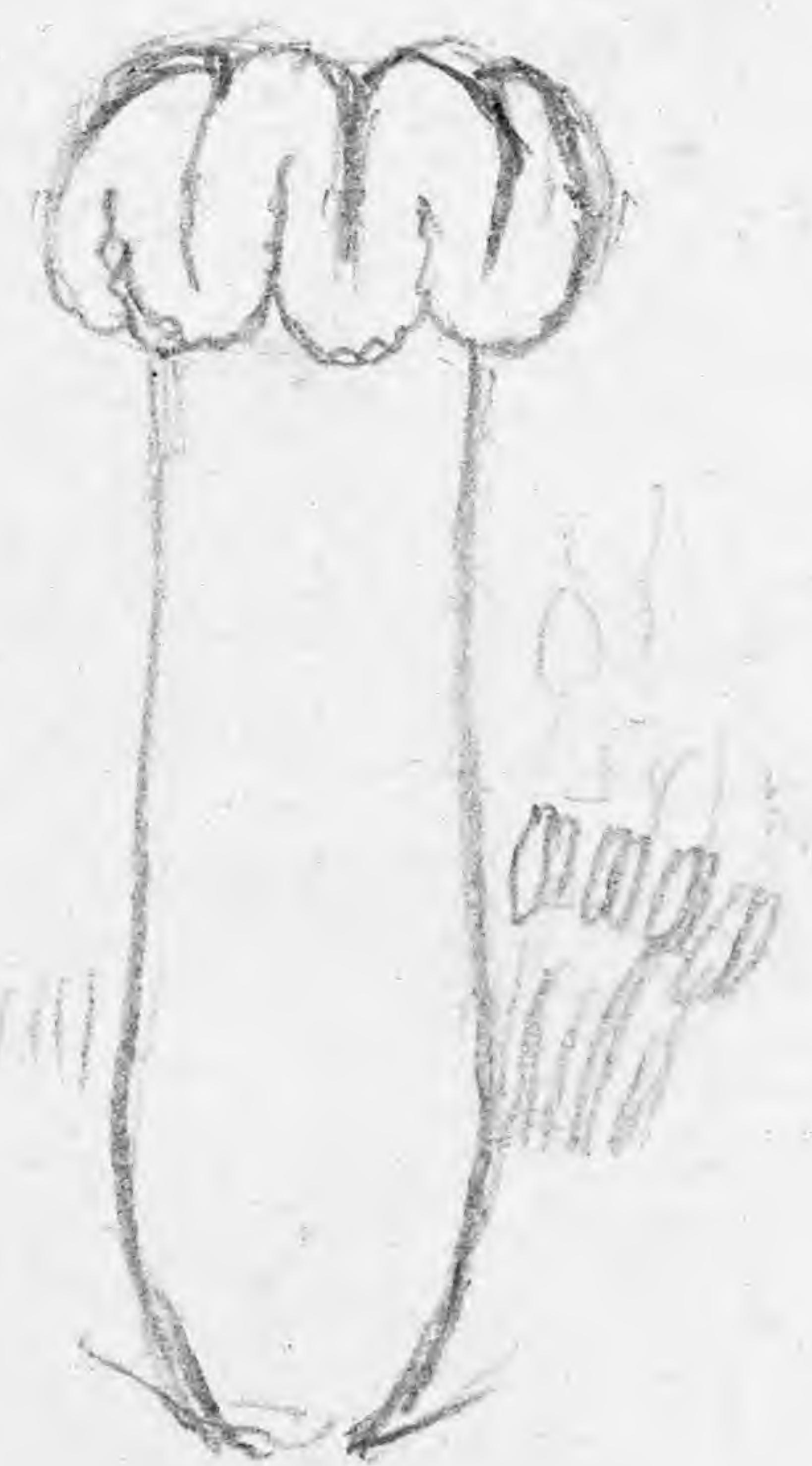
May 18 1876

Arizona?

x10



>0 - 25 mm long
stems fruit, ovules
abortive, cavity
very small



x4
5-6 stigmas white
style reddish



flown purple, about
12-15 cm apart
ovary with 25-35 areolae
1 inch long, oval, tuberculate
tube $2\frac{1}{2}$ - 3 mm long
petals 7 mm long 5-7 wide
oval obtuse or acute

CONSERVATORY
2000



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JONES & LEITCH,
DRUGGISTS,
Corner Fifth and Market Streets, St. Louis, Mo.

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Opuntia Bigelowii

April 20 1886

Fruit

San Bernardino desert, S. Barst



2.4.6.10.16. $\frac{10}{10}$ order
45-53 mm long

(1)

15-17 segments
dirty red
outer brown mucous, white
none exogenous

AA
leaves x 4
 $\frac{3}{4}$ time long

style
28 slightly capitate



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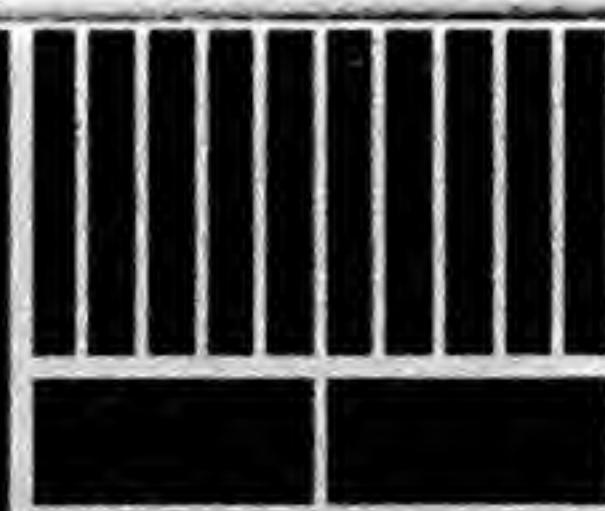
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BOTANICAL
GARDEN

H. W. BARKHOEFER & CO.,
DRUGGISTS & PHARMACISTS,
No. 2934 Olive Street, S. E. Corner Garrison Avenue,
ST. LOUIS, MO.

MISSOURI BOTANICAL GARDEN
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2609

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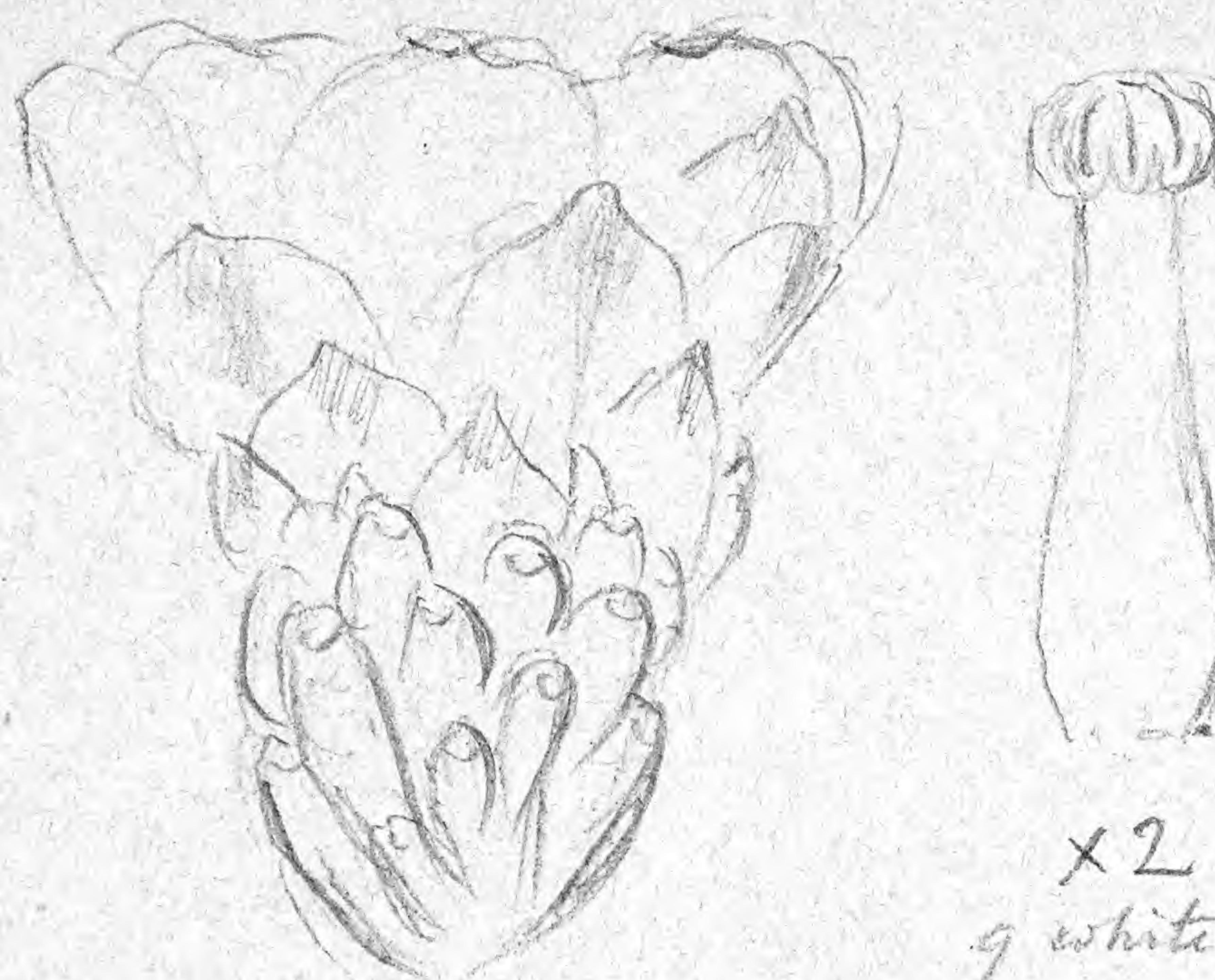
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Ophrys fragilis
From San Diego - Hart Bot. Mus.

May 5 1876



$\times 2$

9 white straight
capitata

18-20 tubules of ovary
K. abt 20 l. long
very prominent

nectar cavity only 1 mm

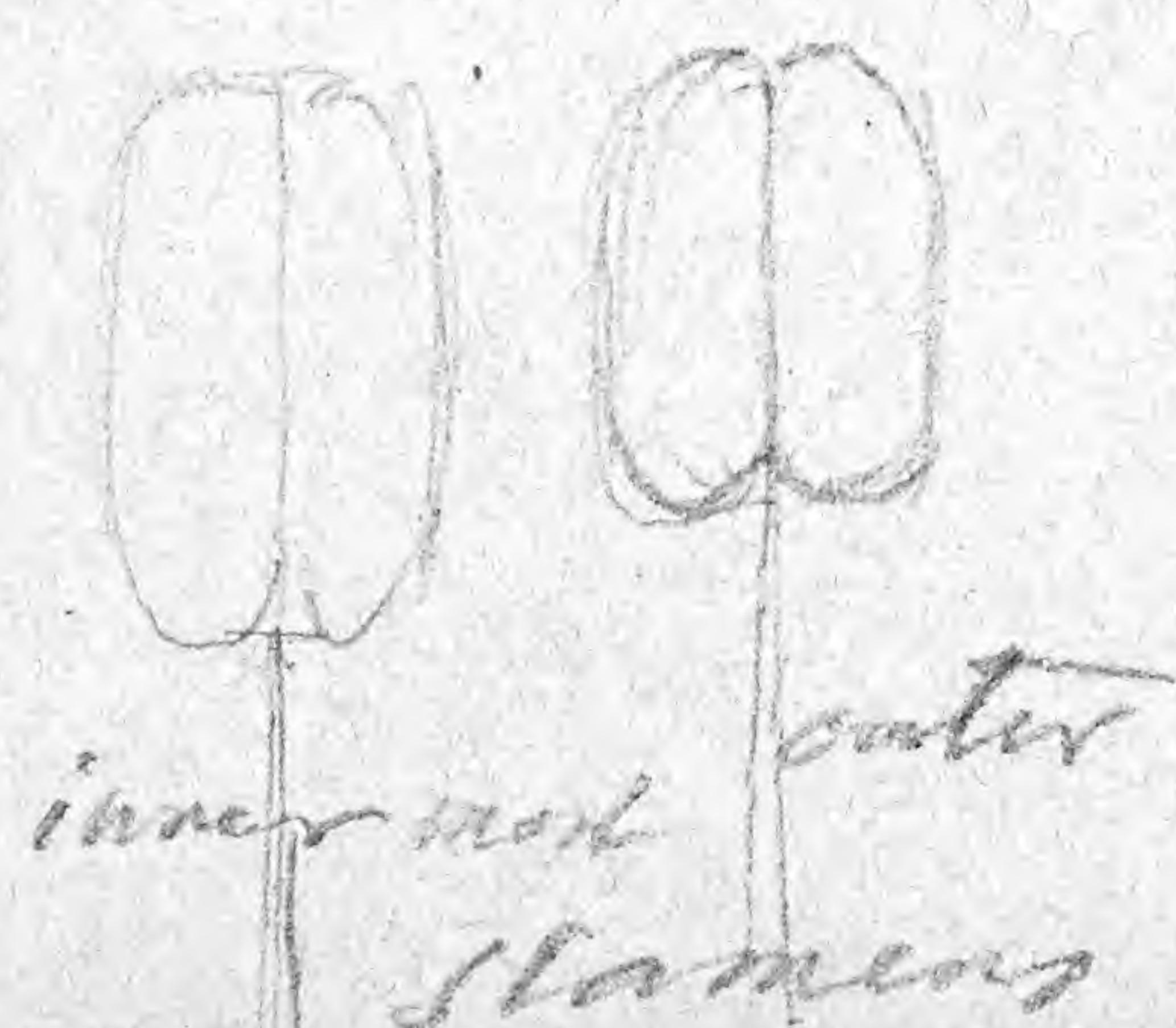
long
stems half as long as style

8-10 obtuse lobes

petaloid greenish yellow
petals

sepals & petals

brown
toward tip and
on midrib



$\times 10$



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cm

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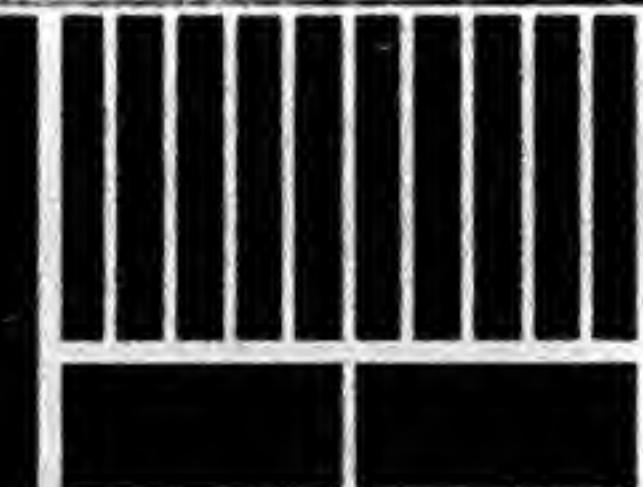


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April 30. 1880

Op. schenckii

X4 Aquatic, San Bernardino Desert, L. Park

2 fl. April 28

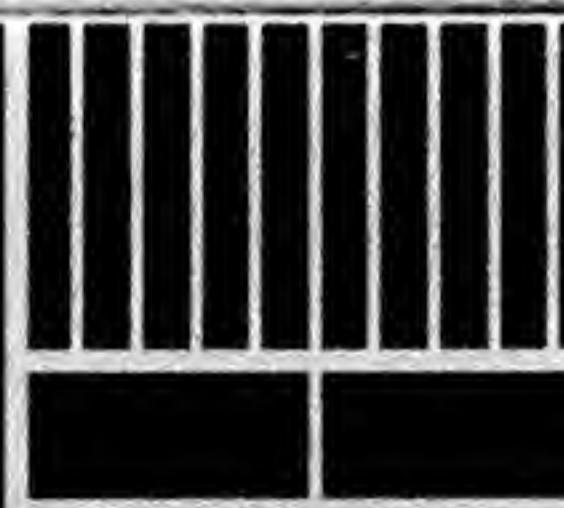
fl. greenish yellow

leaves 2' long.

about 20 miles or over.



5 slightly spreading



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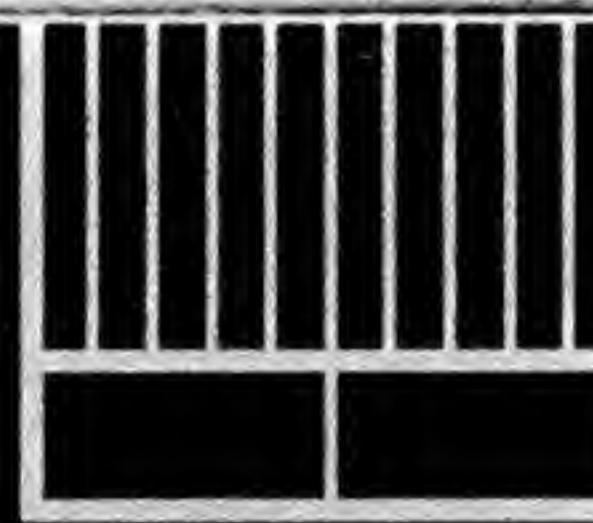


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2610

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J A Weber letter Dec 7th 1883

Opuntia cylindrica (Amer. austro-occid.)
enumerates [my pachyspermae]

O. cylindrica Tuss. 2340

O. teres Hort. similar to last, but much more slender

O. pulvinata Pf. (syn. *O. Miqueli*) *O. Seggetti* Phil.
desert of Atacama

O. Verschaffeltii Hort. Argentina, Catamarca

O. Schickendantzii Web. Catamarca
yellowish white flowers, similar to *Salmiana*

O. vestita, purple fl., green stripes

O. florosa straw yellow flowers, Peru

O. denudata Weber, similar to last, larger and
without hair Peru

"etc etc" [what does this mean?]

[I add *Op. subulata* Cogn (Peruviana Mehlkapp)]



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Rev Dec 26 1883

2611

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Chicago Dec 23
Dr. Geo Engelmann
Dear Sir.

Dr. Edmund Andrews
of the Chicago Academy
of Science said he had
received a letter or word
from a Mr. McC Adams
of Altow ill in reference
to a lecture you had
delivered to a before the
Soc. of Science on the



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2340A

sheltered from the wind, and the warm July sun brought the temperature up to a more seasonable point.

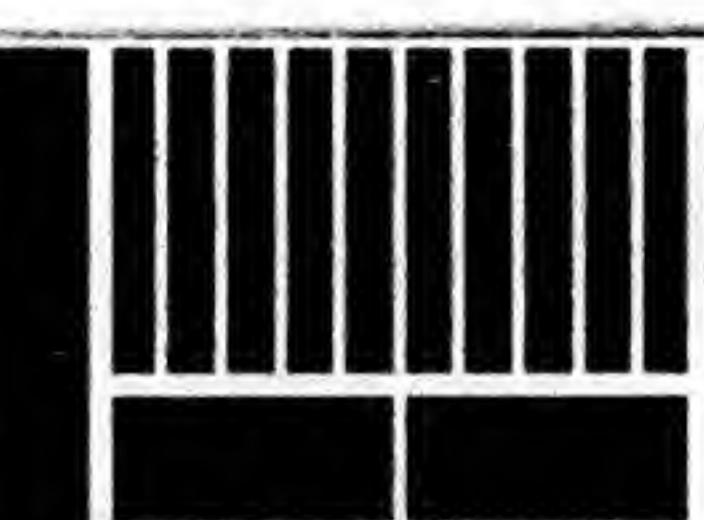
Turning toward Tuckermans' Ravine, with snow visible on its sides, we soon came to what might be called mountain meadows, or rather moors, many acres in extent, green with matted patches of the Carices already noted, *Juncus*, *Luzula arcuata*, *Hierochloa alpina*, and other grasses. *Veratum viride* is very abundant and conspicuous, its spikes just beginning to form. *Viola palustris* is plentiful. *Kalmia glauca* and *Lonicera coerulea* occur in clumps. A dwarf form of *Streptopus roseus* is common, and the bright yellow flowers of *Geum* add variety and color to the landscape. A little farther on *Castilleja pallida* covers the ground, and in crevices of rocky ridges we find *Phyllodoce taxifolia*, *Loiseleuria procumbens*, and *Cassiope hypnoides*.

Crossing this plateau to the westward near the old Crawford bridle path, on a gravelly plain, *Potentilla frigida* attracts our attention.

Going on, we find ourselves at the beautiful little Lake of the Clouds, and eat our lunch on a snow bank, two or three rods square and three feet thick. Here *Salix argyrocarpa*, *Betula glandulosa* and other shrubs occur in all stages of developement. Some just released from under the snow, have buds only beginning to swell, others a little farther away are in flower, while still others are in fruit. The same thing holds true for all the plants of these alpine summits, so that a difference of two or three rods in location, will often make a difference of a month in the time of flowering. *Rhododendron Lapponicum* though quite abundant is entirely out of bloom. *Ledum latifolium* is everywhere conspicuous with its profusion of white flowers.

Having finished our explorations, we started down the mouutain leaving the path, and following the little stream, whlch flows out of "Lake of the Clouds," down into the Gulf of Mexico, and thence into the head waters of the Ammonoosuc. The only plants of special interest, were *Habenaria obtusata*, and *Listera cordata*. But the scenery was very wild and picturesque. The descent was abrupt all the way, and every little while would lead to a precipice over which the stream would leap two or three hundred feet into the abyss, while we were obliged to make a detour in order to find some safer paths. But patience and hard work at length brought us to camp again, somewhat wearied with our ten hours tramp.

J. W. CHICKERING.

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specimen of the California White Cedar, (*Librocedrus deodorens*), a tree some 25 feet high stands in the Botanic garden, with some smaller ones both there and in the Agricultural grounds. It forms a very compact pyramidal tree, in foliage much like the Arbor Vitæ. A number of other interesting native conifers in small specimens may be seen in the Botanical and Agricultural grounds, including the noted *Sequoia gigantea* and the two Torreyas, *T. taxifolia* and *T. Californica*.

GEORGE VASEY.

MISSOURI BOTANICAL GARDEN

GEORGE VASEY
White Mountain Notes.

A week in July spent in camp within two miles of Mt. Washington, afforded good opportunity for some observations upon the flora and fauna of the region. Among fishes *Salmo fontinalis*, the brook trout, claimed special attention, and over eighty pounds rewarded our piscatory attempts, all of which were either eaten around the camp fire, or forwarded to friends.

A noticeable fact, was the almost entire absence of the common earth-worm, *Lumbricus*, so that we had to import our supply for bait.

Along the streams *Arnica mollis*, and *Epilobium alpinum* were found sparingly, with here and there a few plants of *Geum radiatum*, var. *Peckii*, apparently washed down from the heights above, while *Alnus viridis* replaces *A. incana*, the common northern species, just as that replaces the southern species, *A. serrulata*.

July 12th, we made the ascent of Mt. Washington. Following the R. R. we found the common plants of the region, one after another disappearing, till we passed the timber belt, at an altitude of 3,000 to 4,000 feet. The first distinctively alpine plants noticed, were *Vaccinium vitis-idaea*, *V. caespitosum*, *V. uliginosum*, *Salix chlorophylla*, and *Empetrum nigrum*, closely associated, and growing in matted clumps among the rocks.

Five hundred feet higher we found dense patches of *Carex rigida*, var. *Bigelovii*, and *C. vulgaris*. Along the track appeared tufts of *Diapensia Lapponica*, characteristic and beautiful.

Reaching the summit, we found the weather record for the morning, ther. 36°, wind N. W., forty miles per hour. This rendered botanical researches rather a hardship, and we quickly descended, perhaps 1,000 feet to the plateau lying south of the highest peak. There we were



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Miss Grace E. Johnson
Shaw's Garden
City.
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2613

2337

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MISSOURI BOTANICAL GARDEN PAPERS
GEORGE ENGELMANN

2338

2338



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I find a flower open today (Hastat & heavy rain at 1 P.M.) June 8, at 6 $\frac{1}{2}$ P.M. pale greenish yellow of live diamond 8 petals, obvolute, cuspidate, 13 sepals 21 sepal scars ovary. $\frac{1}{2}$ inch very slender, awl-like brown woolly with some bristles.

stigma & capitate

Handing the flower a good deal, the petals remained, as if it was going to close

June 10 dark and rainy day; a flower at 2 p.m. yet closed - at 4 $\frac{1}{2}$ sky clearing, but no sun - flower fully open; the same at 8 p.m., but at 9 $\frac{1}{2}$ p.m. it was half closed

June 11 bright day - the flower of last evening did not open again and until 2 P.M. no others had opened; ^{the afternoon} a little later one began to expand; at 4 P.M. it was fully open but at 5 $\frac{1}{2}$ o'clock it was half closed and at 9 entirely so



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cm

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2614

Dr. Ph. Roemmich,

Nachfolger von

**Dr. Alexander Dienst,
Zahn-Arzt,**

Office: No. 914 Olive-Str.

St. Louis, Mai 1883.

Dr. Engelmann

Werther Herr!

Hierdurch erlaube ich mir Ihnen ergebenst anzugeben, dass ich die Office des verstorbenen Dr. Alex. Dienst, No. 914 Olive-Str., übernommen und es meine Aufgabe sein wird, dieselbe in jeder Beziehung wie bisher fortzuführen.

In der zuversichtlichen Hoffnung, dass Sie die meinem geschätzten Vorgänger bewiesene Gunst auch auf mich übertragen werden, verspreche ich mich zu bemühen, durch aufmerksame Behandlung Ihre vollen Zufriedenheit zu gewinnen.

Achtungsvoll,
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Ph. Roemmich,

Zahn-Arzt.



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